

Serial No. 10/521,904  
Atty. Doc. No. 2002P11788WOUS

Amendments To The Claims:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Applicants reserve the right to pursue any cancelled claims at a later date.

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1 – 15 (canceled)

16. (currently amended) A cooling air cooling system in a power generation station, comprising:

a gas turbine having a compressor component, a combustion component, and a turbine component;

a cooling air line with a primary side;  
cooling air extracted through the cooling air line from a volume of compressor air; and  
a heat exchanger system connected toward the primary side of the cooling air line and receives a portion of the cooling air, wherein the heat exchanger system transfers heat that is carried in the cooling air to a ~~combustion~~ combustible gas flow which is supplied to the combustion chamber of the gas turbine; and

a further heat exchanger connected in parallel with the heat exchanger system that variably transfers an additional quantity of heat from the cooling air that is not required to preheat the combustion gas.

17. (original) The cooling system as claimed in claim 16, wherein the amount of heat supplied to the combustion gas flow is changeable.

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18. (original) The cooling system as claimed in claim 16, wherein the heat exchanger system has a secondary side.

19. (canceled)

20. (original) The cooling system as claimed in claim 16, wherein the heat exchanger system comprises a heat exchanger with a secondary side that is connected directly in the combustion gas flow.

21. (canceled) The cooling system as claimed in claim 16, wherein the heat exchanger system is connected on the secondary side via an intermediate circuit to a further heat exchanger that is connected on a secondary side in the combustion gas flow.

22. (canceled)

23. (canceled)

24. (currently amended) A method for cooling a volume of cooling air for a gas turbine, comprising:

removing a portion of air flow as cooling air flow from a compressor;  
extracting heat from the cooling air flow; and  
transferring the extracted heat to a ~~combustion~~ combustible gas flow and supplying the flow to a combustion chamber of the gas turbine; and  
variably extracting an additional quantity of heat from the cooling air that is not required to preheat the combustion gas.

25. (original) The method as claimed in claim 24, wherein the amount of heat supplied to the combustion gas flow is matched to the operating state of the gas turbine system.

26. (original) The method as claimed in claim 24, wherein the heat flow extracted from the cooling air is divided and supplied to a number of flow elements.

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27. (original) The method as claimed in claim 24, wherein the heat is transferred via a heat exchanger with a secondary side that is connected directly in the combustion gas flow.

28. (original) The method as claimed in claim 24, wherein heat is transferred from a cooling air line to the combustion gas flow via an intermediate circuit.

29. (canceled)

30. (canceled)

31. (new) The cooling system as claimed in claim 17, wherein the additional quantity of heat transferred from the cooling air by the further heat exchanger is provided to a liquid and dissipated as a vaporization heat.

32. (new) The cooling system as claimed in claim 31, wherein the liquid is a working fluid of a kettle boiler.

33. (new) The method as claimed in claim 24, wherein the additional quantity of heat transferred from the cooling air by the further heat exchanger is provided to a liquid and dissipated as a vaporization heat.

34. (new) The method as claimed in claim 33, wherein the liquid is a working fluid of a kettle boiler.